# Visual UI Testing

**~~10/10/2021 – 19/11/2021~~**

1. **~~Vision~~**
   1. ~~Basic process working~~
   2. ~~Advanced matching algorithms~~
      1. ~~dHash, pHash, aHash~~
      2. ~~SIFT, SURF~~
      3. ~~Siamese NN~~
   3. ~~Adaptive threshold~~
   4. ~~Modal recognition~~
   5. ~~Performance improvement~~
2. **~~Robotic~~**
   1. ~~Basic process working (Review and revise Robotic program) - 15/11/2021~~
   2. ~~Integration with Vision detection part~~

**22/11/2021 – 30/11/2021**

1. **~~Whole process improvement~~**
   1. ~~Accuracy~~
      1. ~~Vision~~
         1. ~~Detection~~
         2. ~~Matching~~
      2. ~~Robot arm~~
         1. ~~Calibration~~
   2. ~~Performance~~
      1. ~~Vision~~
         1. ~~Detection~~
            1. ~~OCR~~
         2. ~~Matching~~
      2. ~~Robot arm~~
2. **~~Robot Arm~~**
   1. ~~Hardware & driver upgrade~~
3. **~~Vision~~**
   1. ~~New matching algorithms~~
      1. ~~Auto-encoder~~
4. **Dataset**
   1. Auto-testing tools to click app & collect UI

**1/12/2021 – 12/12/2021**

1. **Dataset**
   1. GUI operation trace
      1. Set up Auto-testing tools to click app
      2. Collect UIs
   2. Matching
      1. Collect dataset
2. **Quantitative Evaluation**
   1. Matching algorithms

Paper1.

Benchmark, propose challenge, simple visual, large dataset (app), robotic system, auto testing record

Paper2.

Visual innovation, differing techniques

Paper3.